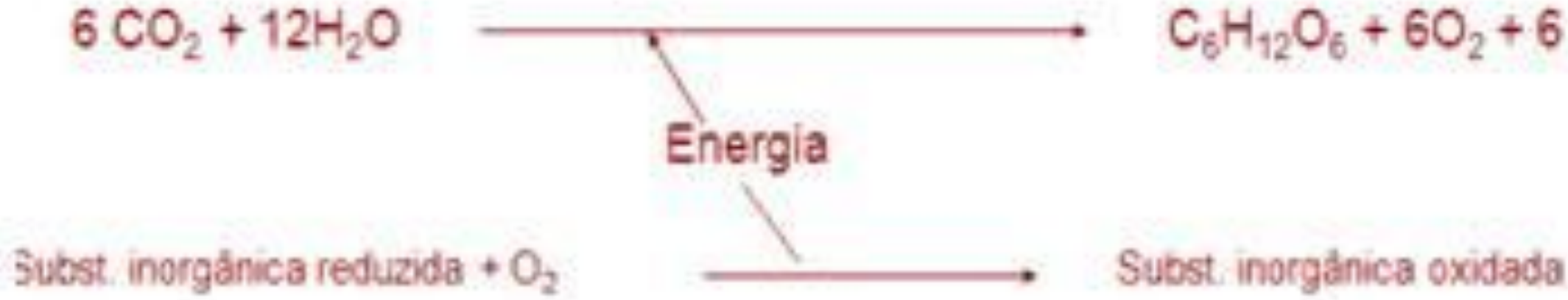
Fluxo de energia e ciclo da matéria

Qual é a fonte de energia dos seres vivos? De onde ela vem?

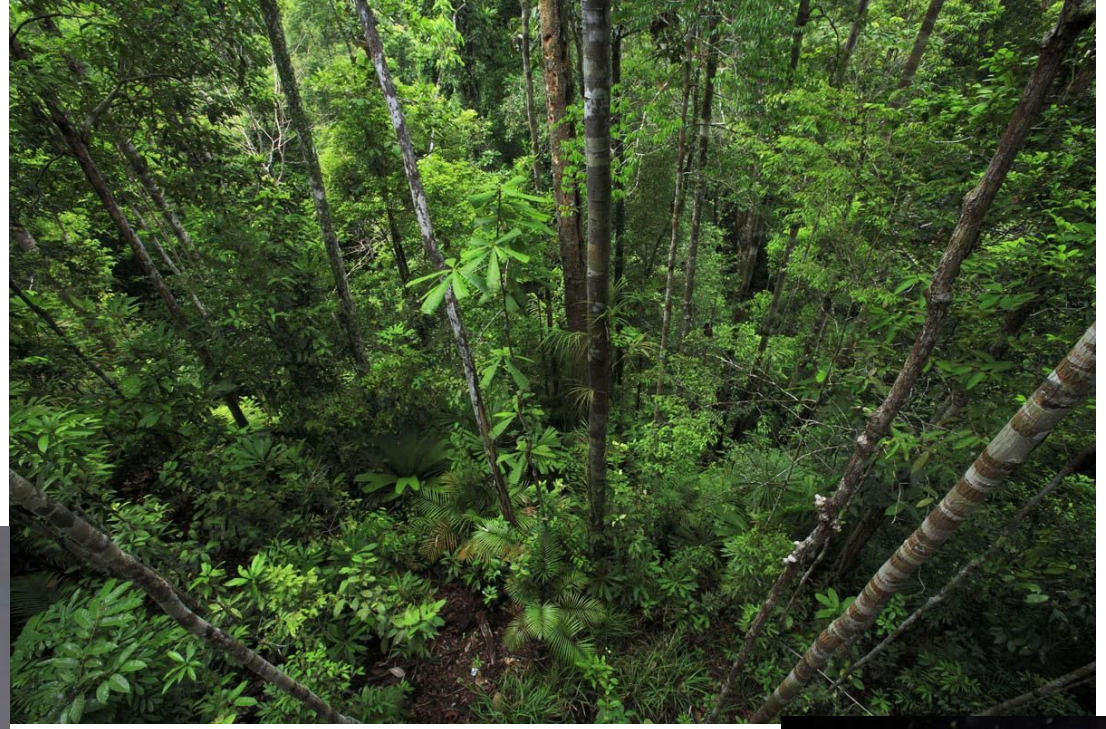
FOTOSSÍNTESE

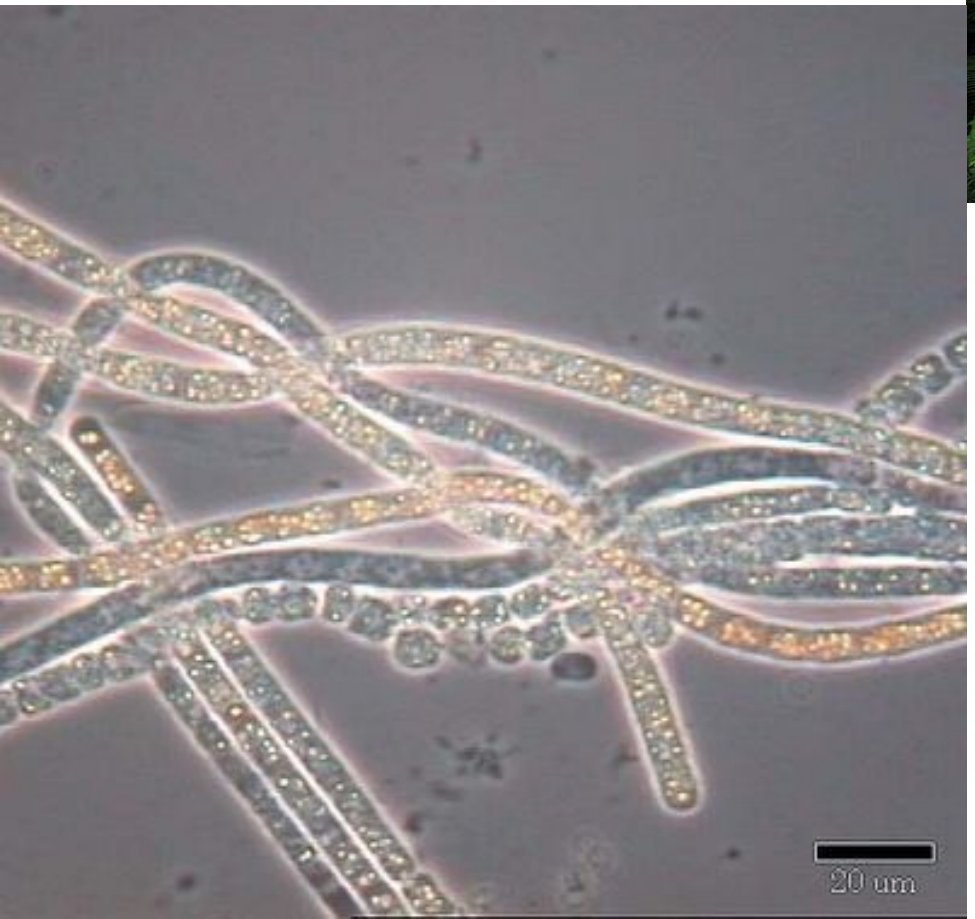
QUIMIOSSÍNTESE



Produtores

- Seres autótrofos





Beggiatoa | *Elysia chlorotica*

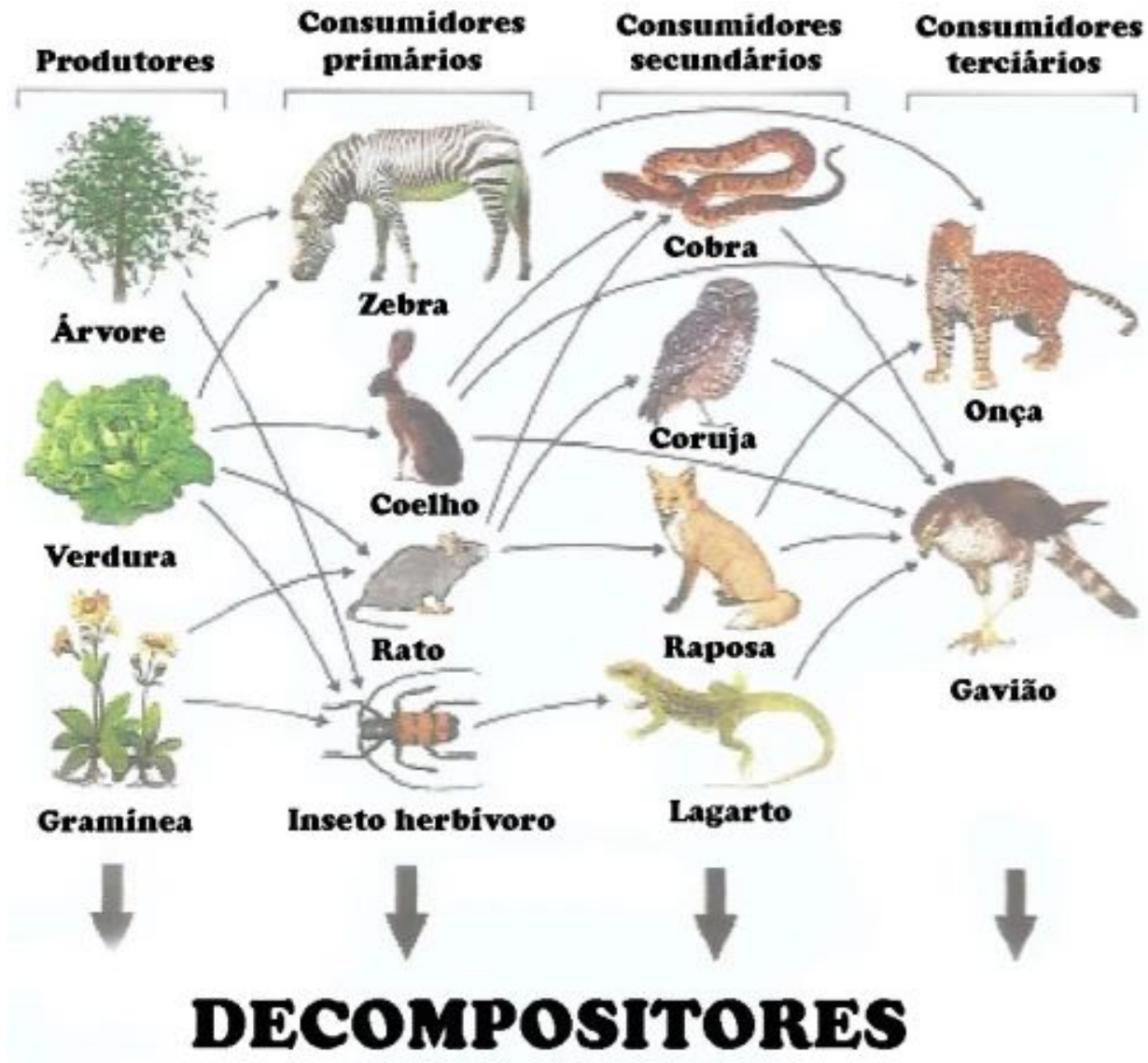
Consumidores

- Seres heterótrofos

Organismos saprobios	Organismos detritívoros	Organismos predadores
Ejemplos: Las setas, bacterias, insectos, lombrices...etc	Ejemplos: escarabajos, las lombrices, larvas de moscas, pepinos de mar...etc	Ejemplos: Leones, águilas, tiburones...etc

Fluxo de energia e ciclo da matéria

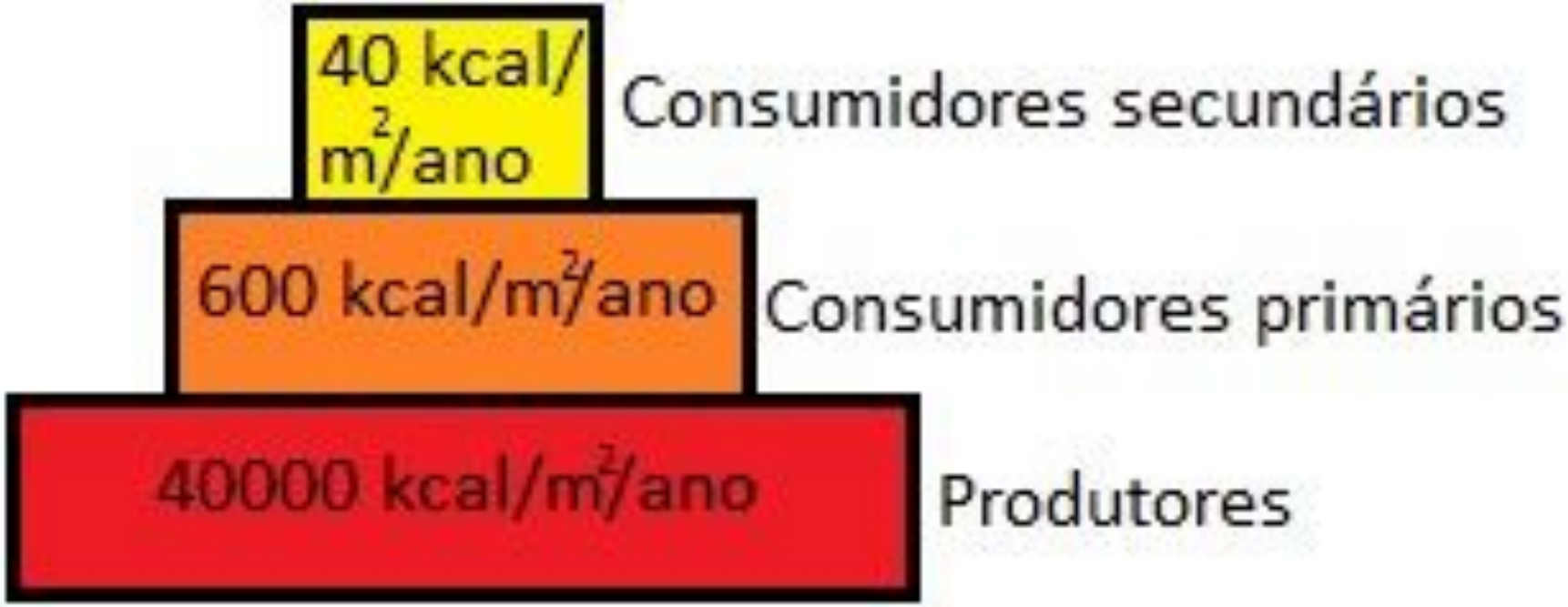
Teia alimentar



Pirâmides ecológicas - números

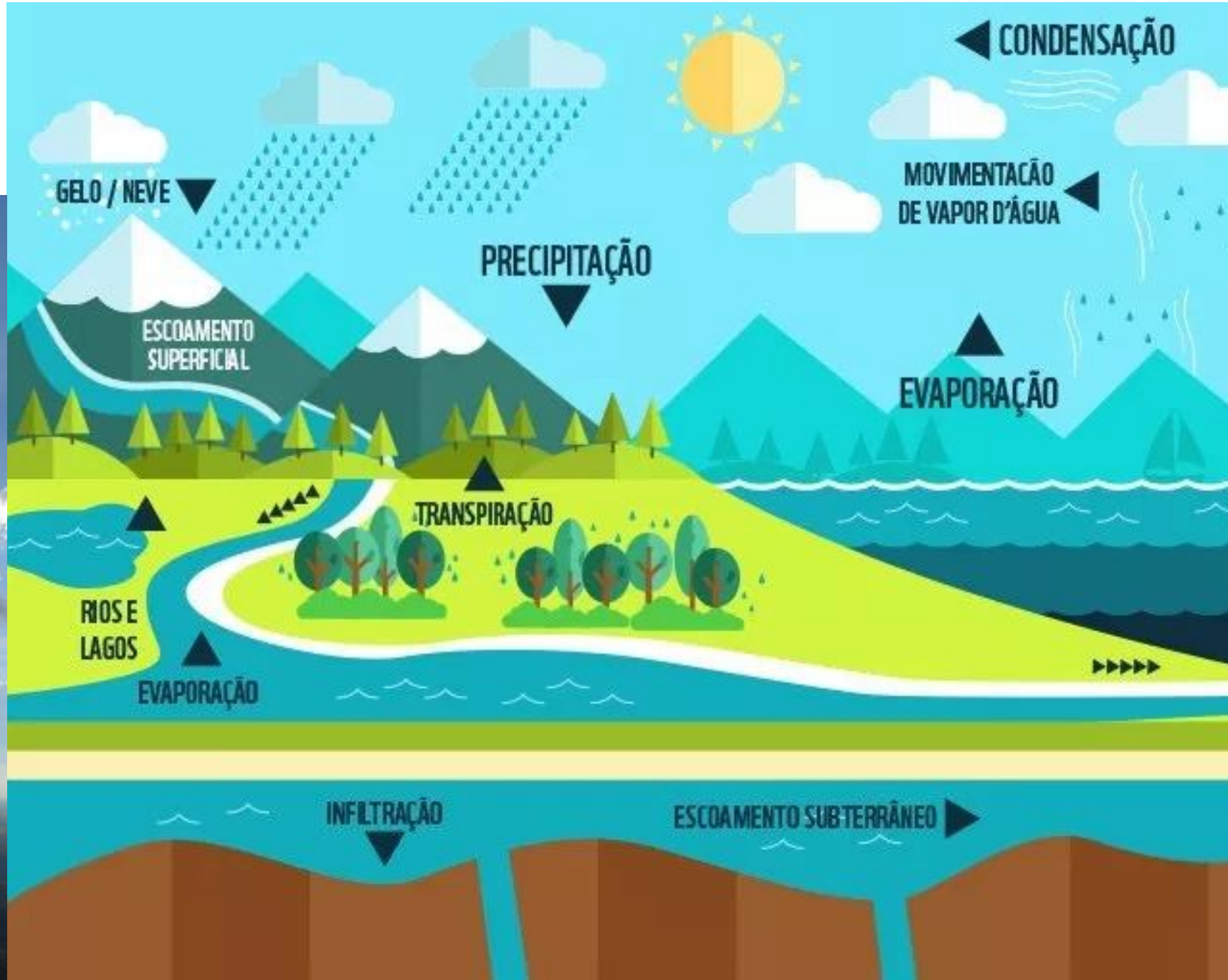
Pirâmides ecológicas - biomassa

Pirâmides ecológicas - energia

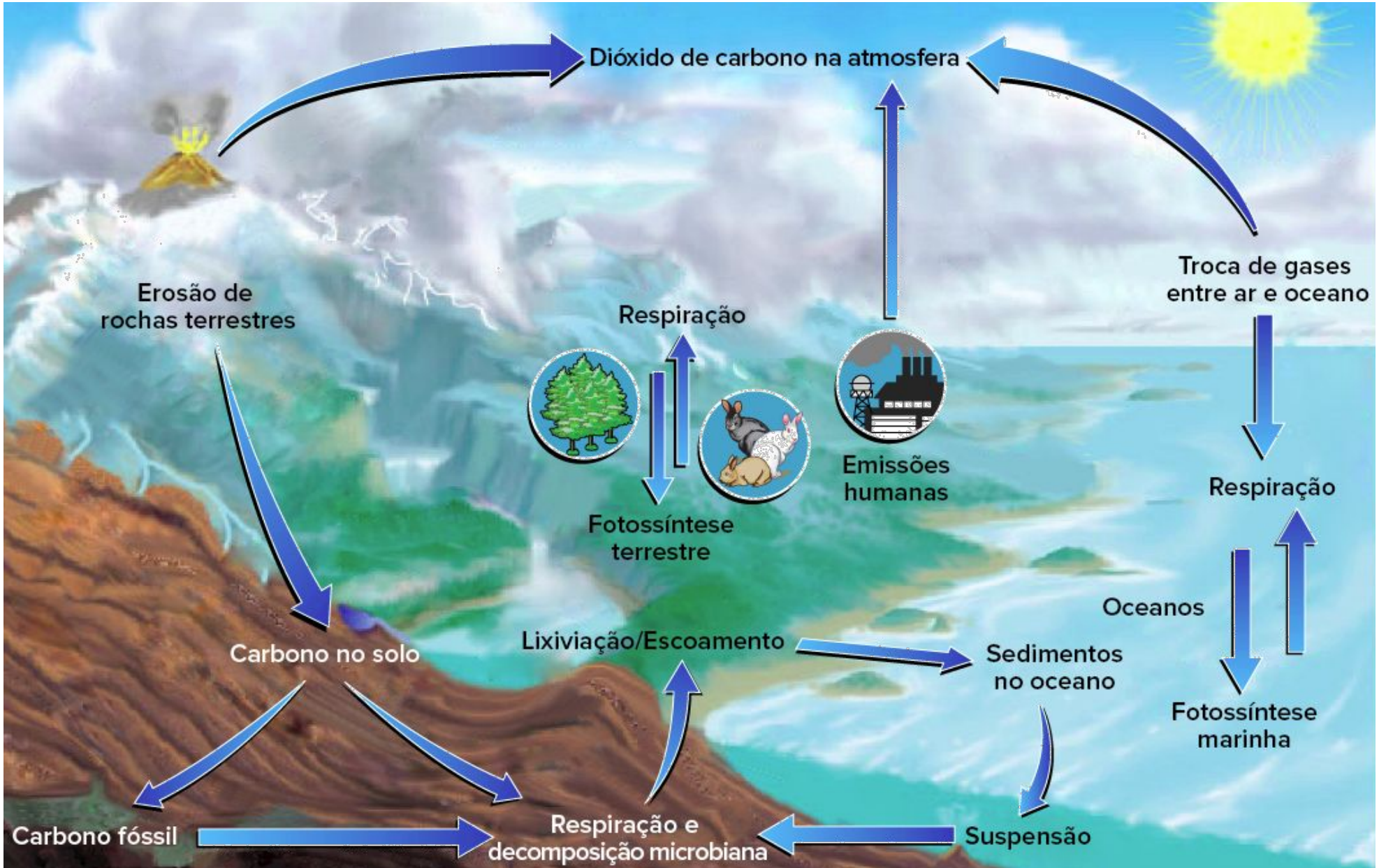


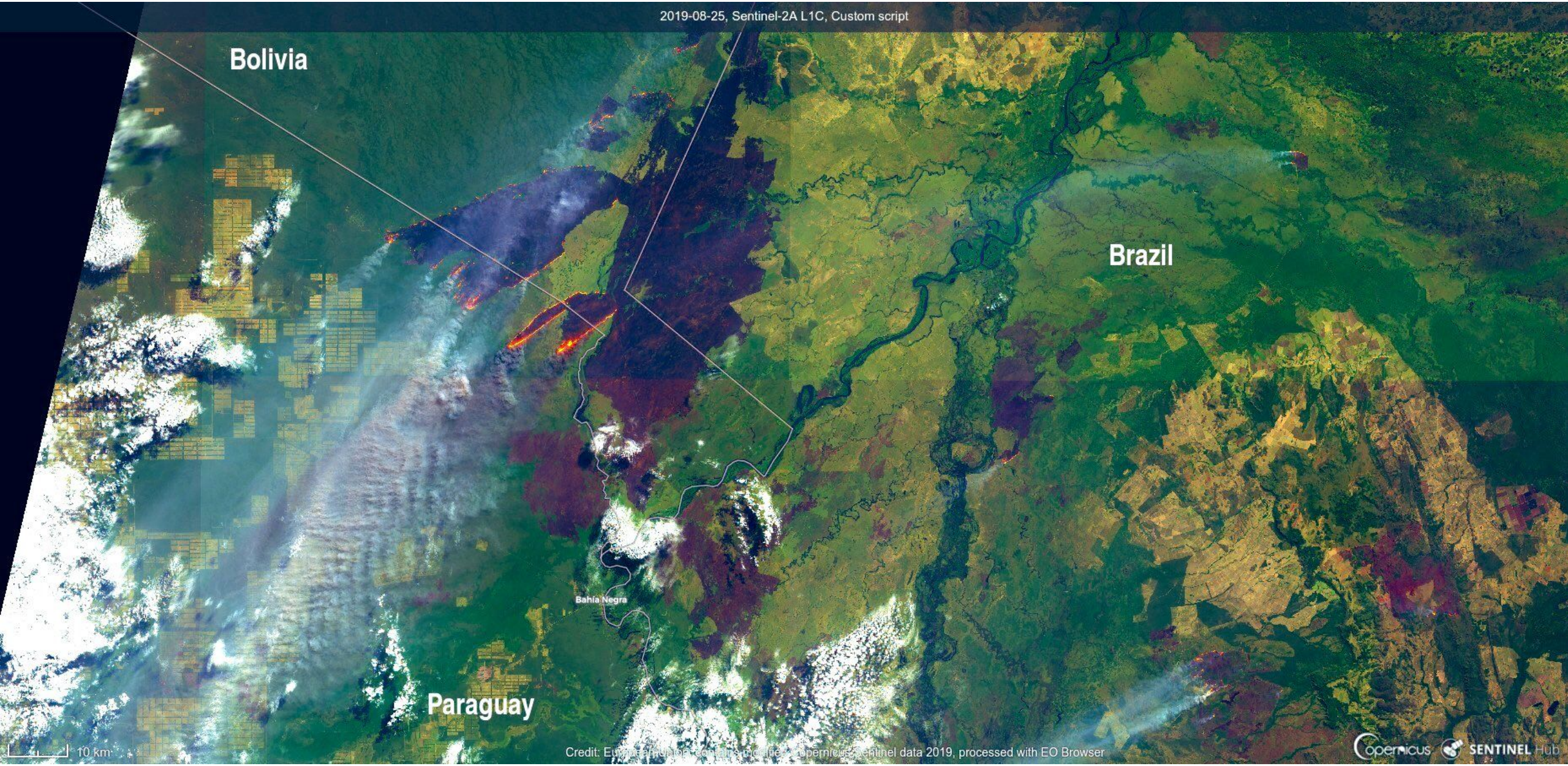
Ciclos biogeoquímicos

Ciclo da água

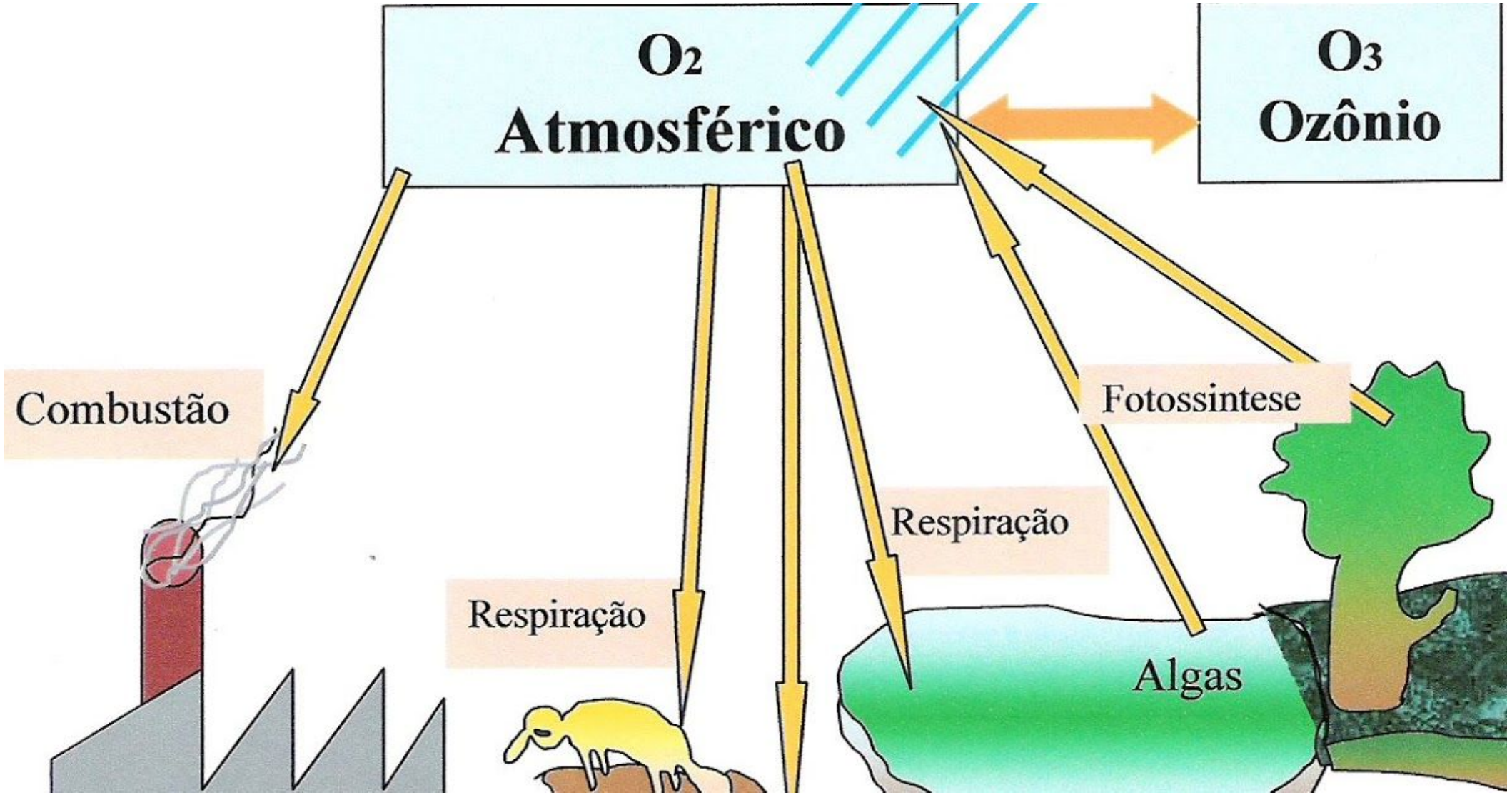
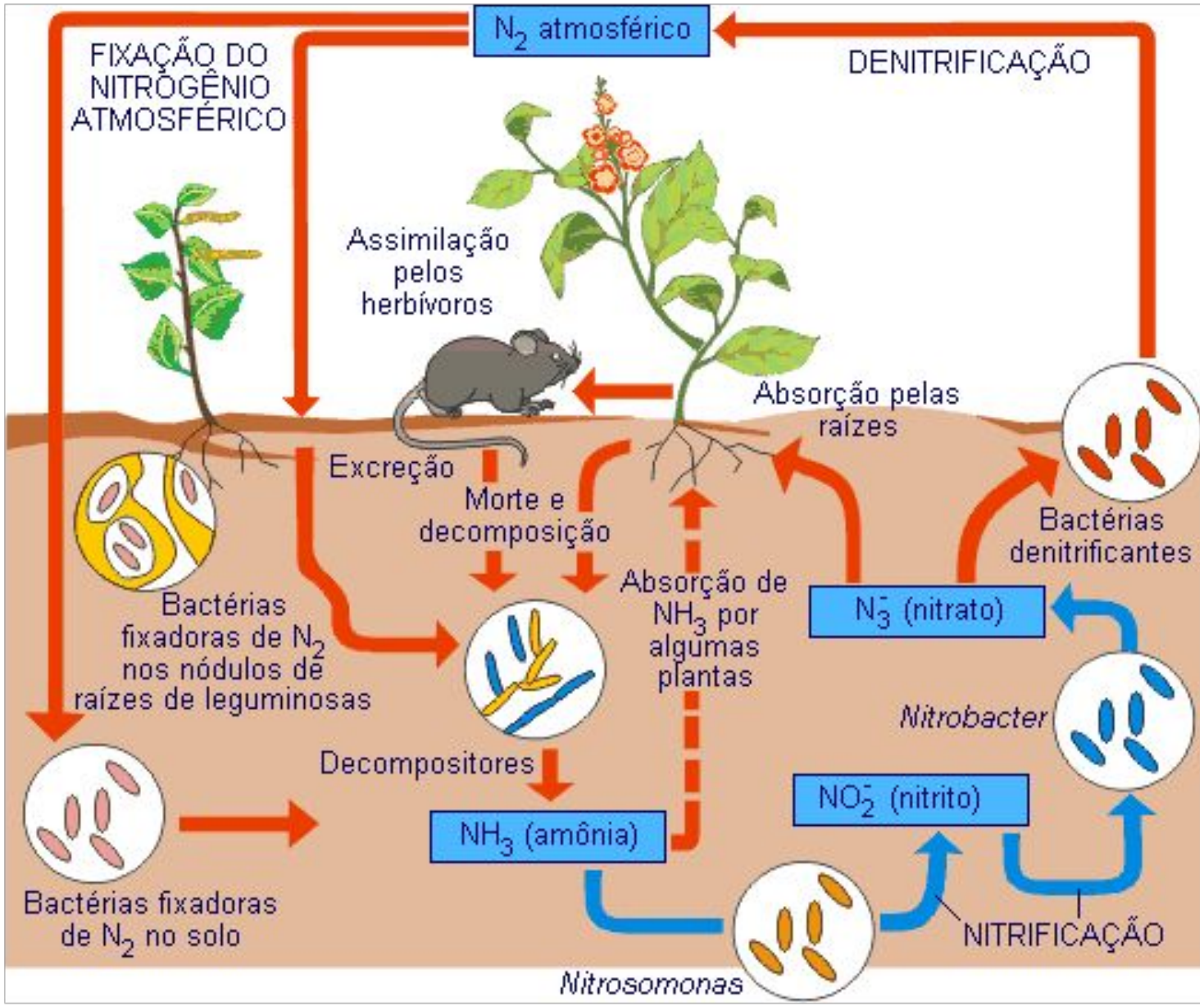


Ciclo do carbono




2019-08-25, Sentinel-2A L1C, Custom script
Bolivia
Brazil
Bahía Negra
Paraguay
10 km
Credit: European Union/ESA/Copernicus, modified Copernicus Sentinel data 2019, processed with EO Browser
Copernicus
SENTINEL Hub

Ciclo do oxigênio



Ciclo do nitrogênio